

Title and Scope of NIST Security Working Group Deliverable

(As of March 30, 2011)

Title: A Roadmap for Security Preparedness for Government Adoption of/Subscription to Cloud Services

Scope:

- List of Security Requirements/Issues outside the scope of Working Group
- Suggested Areas for Developing NIST Guidance
- Considerations for FEDRAMP Security Controls Requirements
- Considerations for other NIST Cloud Computing Working Groups

The above scope is a resulting of combining the following two approaches.

Approach - I

This Approach has a two-pronged Thrust

First Thrust

1. Interface with each of the NIST Working Group and study their output/definitions. Address how security plays a role in each of their output elements.

Second Thrust

2. Address Cloud Security concerns from a Federal IT Executive/CIO perspective.
3. For accomplishing (2) above, threats should be addressed at a conceptual level and not technology level
4. For accomplishing (2) use security topics identified in NIST Reference Architecture - Latest Strawman Model.

Approach - II

1. Use the NIST Reference Architecture - Latest Strawman Model for Security Topics - Coincides with Approach - I

2. For each component of the stack in the NIST Reference Architecture, identify some typical higher level operations that the subscriber has control and performs - e.g., Activating and Deactivating a virtual resource at the IaaS component of the stack.

3. Identify the security threats that are associated with operations identified in (2). Majority of the threats will still be technology neutral (some may not be) and the threats will not at a purely conceptual level (as in Approach - I).

4. Categorize the threats for various Service/Deployment Model scenarios.

5. Identify which of the FEDRAMP controls will address those controls, which controls need to be modified and what are the new controls needed. In other seek coverage for those threats through countermeasures in the form of controls.

(or)

Identify a set of general security functional requirements that a CIO should develop to address the threats

6. The title of the deliverable "A Roadmap for Security Preparedness for Government Adoption of/Subscription to Cloud Services".